



**CREWE**

**BOROUGH**

**COUNCIL**



# **ANNUAL REPORT**

**OF THE**

**MEDICAL OFFICER OF HEALTH**

**AND THE**

**CHIEF PUBLIC HEALTH INSPECTOR**

**FOR THE YEAR 1970**

**D.G.CRAWSHAW, M.B., Ch.B., D.C.H., D.P.H.,  
MEDICAL OFFICER OF HEALTH**

**R.E.PLATT, M.A.P.H.I., A.M.Inst.P.C.,  
CHIEF PUBLIC HEALTH INSPECTOR**



B O R O U G H   O F   C R E W E

ANNUAL REPORT

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MEDICAL OFFICER OF HEALTH

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B O R O U G H   O F   C R E W E  
H E A L T H   A N D   S T A N D A R D S   C O M M I T T E E

(Membership as at 31st December, 1970)

Chairman:

Councillor J.O. Hughes

Deputy Chairman:

Councillor Mrs. N. Golding

Members:

THE WORSHIPFUL THE MAYOR -

ALDERMAN A.J. BECKETT

ALDERMAN E.W. ALLCOCK

ALDERMAN W.R. FOULKES

ALDERMAN W. TALBOT

COUNCILLOR G.L. DODD

COUNCILLOR C.W. HASSALL

COUNCILLOR M. McCANN

COUNCILLOR M. SCHOLES

COUNCILLOR MRS K. TALBOT

BOROUGH OF CREWE

MEDICAL OFFICER'S OFFICE

D.G. CRAWSHAW, M.B.,Ch.B.,D.C.H.,D.P.H., Medical Officer of  
Health (part time with Cheshire C.C.,Nantwich R.D.C.,  
and Nantwich U.D.C.)  
C. BENNETT, D.M.A., Chief Clerk (part-time with Cheshire C.C.)  
MRS. J.M. COOKE, Clerk (part-time with Cheshire C.C.)

CHIEF PUBLIC HEALTH INSPECTOR'S DEPARTMENT

R.E. PLATT	Chief Public Health Inspector, Inspector under the Diseases of Animals Acts.
F.J. ROGERS	Deputy Chief Public Health Inspector (resigned 31.12.70.)
D.W. COOKE	Public Health Inspector
R.D. COLLIER	Public Health Inspector
E.H. PEET	Public Health Inspector
T.E. HOLLINS	Public Health Inspector
D.S. WHITE	Technical Assistant
I. CLARKE	Pupil Public Health Inspector
J.C.M. POTTER	Pupil Public Health Inspector
R.J. BLEASE	Chief Administrative Assistant
G.E. LATHAM	Clerk
MRS. J. ADAMS	Shorthand Typist
MISS J. WARBURTON	Shorthand Typist.

October, 1971.

To the Mayor, Aldermen and  
Councillors of the Borough of Crewe.

I have the honour to present to you my report on the health of the Borough of Crewe for the year 1970.

The estimated population shows a further fall of 360 on the 1969 figure. It is interesting to note that despite a population reduction of 1,770 in the last 10 years, the number of inhabited houses shows an increase of 1,079.

The total number of live births (804) shows a further fall on the 1969 figure of 814, which itself was the lowest figure in the decade. The number of illegitimate births (71) gives an illegitimate live birth rate of 8.8%. This compares with last years record high percentage of 11.4. 22 infants died before reaching the age of 1 year and the infantile mortality rate is 27.36 per 1,000 live births. The England and Wales figure for 1970 is 18.0. The table on page 14 gives details of the age and causes. 15 of these babies died during the first month of life, mostly from causes difficult to prevent.

The total number of deaths, 663, is again higher than the 10 years average figure (approximately 600) and our figures are comparable with a fairly static population. The 1970 figures give a death rate of 12.8 per 1,000 population, and when this is corrected by the comparability factor, the rate is 14.8 compared with a national rate of 11.7 per 1,000 population. The tables on pages 9 - 13 give details of the causes of death and ages.

The table on page 15 gives details of notified infectious diseases. The prevalence of measles is worth noting. I would hope that this figure will steadily diminish as the vaccination scheme progresses. Food poisoning and dysentery notifications increased. Several of these were infections contracted abroad for which the patient still required treatment following return to Crewe. Details of immunisation and vaccination and information on other work carried out is included in the report.

I remain,

Your obedient servant,

D.G. CRAWSHAW.

STATISTICS AND SOCIAL CONDITIONS OF THE AREA

GENERAL STATISTICS

Area (Census 1961) ... ..	4,386 acres
Population (Census 1961) ... ..	53,394
Registrar General's Estimated Population 1970	51,600
Number of Inhabited Houses (1st April, 1970)	17,898
Rateable Value (1st April, 1970)	£2,083,209
Sum Represented by Penny Rate (1969/70) ... ..	£8,453. 19s. 7d.

VITAL STATISTICS FOR THE YEAR 1970

MOTHERS & INFANTS

LIVE BIRTHS

<u>Number</u>	<u>Males</u>	<u>Females</u>	<u>Total</u>
Legitimate	364	369	733
Illegitimate	33	38	71
	<u>397</u>	<u>407</u>	<u>804</u>

Rate per 1,000 population ... ..	15.6
Illegitimate live birth (per cent. of total live births)	8.8%

STILLBIRTHS

<u>Number</u>	<u>Males</u>	<u>Females</u>	<u>Total</u>
Legitimate	7	4	11
Illegitimate	1	3	4
	<u>8</u>	<u>7</u>	<u>15</u>

Rate per 1,000 total live and stillbirths ... ..	18.31
--	-------

Total live and stillbirths

<u>Males</u>	<u>Females</u>	<u>Total</u>
405	414	819

Infant Deaths (deaths under one year)

<u>Males</u>	<u>Females</u>	<u>Total</u>
12	10	22



INFANT MORTALITY RATES

Total infant deaths per 1,000 total live births	...	...	27.36
Legitimate infant deaths per 1,000 legitimate live births			25.92
Illegitimate infant deaths per 1,000 illegitimate live births			42.11

NEO-NATAL MORTALITY RATE

(Deaths under 4 weeks per 1,000 total live births)	...	18.65
--	-----	-------

EARLY NEO-NATAL MORTALITY RATE

(Deaths under 1 week per 1,000 total live births)	...	14.99
---	-----	-------

PERINATAL MORTALITY RATE

(Stillbirths and deaths under 1 week combined per 1,000 total live and stillbirths)	...	...	...	32.96
--	-----	-----	-----	-------

MATERNAL MORTALITY (including abortion)

Number of deaths	...	...	...	...	...	...	...	...	nil
------------------	-----	-----	-----	-----	-----	-----	-----	-----	-----

DEATHS - GENERAL

REGISTERED DEATHS

<u>Males</u>	<u>Females</u>	<u>Total</u>
350	313	663

DEATH RATE

(Deaths per 1,000 population)	...	...	...	...	12.8
-------------------------------	-----	-----	-----	-----	------

BIRTH RATES, DEATH RATES, ANALYSIS OF MORTALITY  
MATERNAL MORTALITY AND CASE RATES FOR CERTAIN  
INFECTIOUS DISEASES IN THE YEAR 1970

(Provisional figures based on weekly and quarterly returns)

								CREWE
								Rates per 1,000 of the Population
BIRTHS -								
Live	...	...	...	...	...	...	...	15.6
Still	...	...	...	...	...	...	...	0.29
DEATHS -								
All causes	...	...	...	...	...	...	...	12.8
Typhoid & Paratyphoid Fevers	...	...	...	...	...	...	...	-
Whooping Cough	...	...	...	...	...	...	...	-
Diphtheria	...	...	...	...	...	...	...	-
Tuberculosis (all forms)	...	...	...	...	...	...	...	0.038
Influenza	...	...	...	...	...	...	...	0.290
Smallpox	...	...	...	...	...	...	...	-
Acute Poliomyelitis, including Polioencephalitis	...	...	...	...	...	...	...	-
Pneumonia (including pneumonia of Newborn)	...	...	...	...	...	...	...	0.523
								Rates per 1,000 Live Births
Under 1 year of age (all causes)	...	...	...	...	...	...	...	27.36
Gastro-Enteritis, Colitis (except ulcerative) and Diarrhoea under 1 year of age	...	...	...	...	...	...	...	-
								Rates per 1,000 of the Population
NOTIFICATIONS (corrected) -								
Typhoid Fever	...	...	...	...	...	...	...	-
Paratyphoid Fever	...	...	...	...	...	...	...	-
Meningococcal Infection	...	...	...	...	...	...	...	-
Scarlet Fever	...	...	...	...	...	...	...	0.07
Whooping Cough	...	...	...	...	...	...	...	0.34
Diphtheria	...	...	...	...	...	...	...	-
Erysipelas	...	...	...	...	...	...	...	-
Smallpox	...	...	...	...	...	...	...	-
Measles	...	...	...	...	...	...	...	3.81
Acute Poliomyelitis including Polioencephalitis	...	...	...	...	...	...	...	
Paralytic	...	...	...	...	...	...	...	-
Non-Paralytic	...	...	...	...	...	...	...	-
Food Poisoning	...	...	...	...	...	...	...	0.17
Puerperal Pyrexia	...	...	...	...	...	...	...	-
Ophthalmia Neonatorum	...	...	...	...	...	...	...	-
Dysentery	...	...	...	...	...	...	...	0.095
Infective Jaundice	...	...	...	...	...	...	...	0.019

A dash (-) signifies that there were no deaths or notifications

BIRTH RATES, DEATH RATES, ANALYSIS OF MORTALITY  
MATERNAL MORTALITY, AND CASE RATES FOR CERTAIN  
INFECTIOUS DISEASES  
IN THE YEAR 1970

(continued)

Comparison of certain rates with those for England and Wales.

COMPARABILITY FACTORS

<u>Births</u>	<u>Deaths</u>	
1.01	1.16	
	<u>Crewe</u>	<u>England and Wales</u>
Per 1,000 Home Population		
Live Births ... ..	15.6	
Live Births (corrected by comparability factor)	15.8	16.0
Deaths (all causes) actual	12.8	
Deaths (all causes) (corrected by comparability factor)	14.8	11.7
Per 1,000 total (live and still) births		
Stillbirths ... ..	18.31	13.0
Per 1,000 Live Births		
Deaths under 1 year of age ...	27.36	18.0

COMPARATIVE STATISTICS 1960 - 1970

Year	Esti- mated Popu- lation	Live Births		Stillbirths		Deaths		Infant Deaths				Maternal Deaths			
		No.	Rate per 1,000 Esti- mated Popu- lation	No.	Rate per 1,000 Total Live & Still- births	No.	Rate per 1,000 Esti- mated Popu- lation	Under 4 Weeks	4 Wks to 12 Mths	Total	Rate Per 1,000 Live Births	Number			Rate Per 1,000 Total Births
												Sep- sis	Other	Total	
1960	51,320	910	17.7	28	29.8	540	10.5	16	3	19	20.9	-	-	-	-
1961	53,730	919	17.1	21	22.3	702	13.1	12	5	17	18.5	-	-	-	-
1962	53,580	958	17.8	15	15.4	655	12.22	8	21	29	30.27	-	1	1	1.02
1963	53,180	995	18.7	26	19.2	621	11.67	17	10	27	27.13	-	1	1	0.979
1964	52,950	1023	19.3	24	22.9	616	11.63	14	10	24	23.46	-	1	1	0.955
1965	52,870	975	18.4	23	23.0	657	12.43	8	8	16	16.41	-	-	-	-
1966	52,600	898	17.07	19	20.71	661	12.56	17	8	25	27.83	-	1	1	1.090
1967	52,400	875	16.7	14	16.96	635	12.1	8	4	12	13.71	-	-	-	-
1968	52,220	867	16.6	18	20.33	637	12.2	10	12	22	25.37	-	-	-	-
1969	51,960	814	15.7	15	18.09	681	13.1	9	10	19	23.34	-	-	-	-
1970	51,600	804	15.6	15	18.31	663	12.8	15	7	22	27.36	-	-	-	-

CAUSES OF DEATH AT DIFFERENT PERIODS OF LIFE DURING 1970 IN THE MUNICIPAL BOROUGH OF CREWE

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CAUSE OF DEATH	Sex	Total All Ages	Under 4 Weeks	4 Weeks & Under 1 Year	Age in Years									
					1-	5-	15-	25-	35-	45-	55-	65-	75+	
Tuberculosis of Respiratory System	M	-	-	-	-	-	-	-	-	-	-	-	-	-
	F	1	-	-	-	-	-	-	1	-	-	-	-	-
Late Effects of Respiratory Tuberculosis	M	1	-	-	-	-	-	-	-	-	-	-	1	-
	F	-	-	-	-	-	-	-	-	-	-	-	-	-
Malignant Neoplasm, Buccal Cavity Etc.	M	-	-	-	-	-	-	-	-	-	-	-	-	-
	F	1	-	-	-	-	-	-	-	1	-	-	-	-
Malignant Neoplasm, Oesophagus	M	7	-	-	-	-	-	-	-	-	-	2	3	2
	F	3	-	-	-	-	-	-	-	-	-	1	1	1
Malignant Neoplasm, Stomach	M	12	-	-	-	-	-	1	-	-	-	3	2	6
	F	8	-	-	-	-	-	-	-	-	1	2	3	2
Malignant Neoplasm, Intestine	M	13	-	-	-	-	-	-	-	-	1	7	2	3
	F	7	-	-	-	-	-	-	-	1	-	-	5	1
Malignant Neoplasm, Larynx	M	1	-	-	-	-	-	-	-	-	-	-	1	-
	F	-	-	-	-	-	-	-	-	-	-	-	-	-
Malignant Neoplasm, Lung, Bronchus	M	21	-	-	-	-	-	-	-	-	1	7	12	1
	F	7	-	-	-	-	-	-	-	-	-	1	5	1
Malignant Neoplasm, Breast	M	-	-	-	-	-	-	-	-	-	-	-	-	-
	F	10	-	-	-	-	-	-	-	-	2	2	1	5
Malignant Neoplasm, Uterus	F	6	-	-	-	-	-	-	-	-	2	1	3	-

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CAUSES OF DEATH AT DIFFERENT PERIODS OF LIFE DURING 1970 IN THE MUNICIPAL BOROUGH OF CREWE

CAUSE OF DEATH	Sex	Total All Ages	Under 4 Weeks	4 Weeks & Under 1 Year	Age in Years									
					1-	5-	15-	25-	35-	45-	55-	65-	75+	
Malignant Neoplasm, Prostate	M	6	-	-	-	-	-	-	-	-	-	1	4	1
	M	1	-	-	-	-	-	-	-	-	-	-	1	-
Leukaemia	F	2	-	-	1	-	-	-	-	1	-	-	-	-
Other Malignant Neoplasms	M	7	-	-	-	-	-	-	-	2	2	2	2	-
	F	17	-	-	-	-	-	-	-	1	2	7	7	1
Diabetes Mellitus	M	3	-	-	-	-	-	-	-	1	-	-	-	2
	F	3	-	-	-	-	-	-	-	1	-	-	1	1
Avitaminoses, Etc.	M	-	-	-	-	-	-	-	-	-	-	-	-	-
	F	1	-	-	-	-	-	-	-	-	-	-	-	1
Anaemias	M	1	-	-	-	-	-	-	-	-	-	-	1	-
	F	2	-	-	-	-	-	-	-	-	-	-	1	1
Mental Disorders	M	-	-	-	-	-	-	-	-	-	-	-	-	-
	F	2	-	-	-	-	-	-	-	-	-	-	-	2
Multiple Sclerosis	M	1	-	-	-	-	-	-	-	-	-	-	-	-
	F	-	-	-	-	-	-	-	-	1	-	-	-	-
Other Diseases of Nervous System	M	3	-	1	-	-	-	-	-	-	-	1	-	1
	F	5	-	-	-	-	-	-	-	1	1	1	1	1
Chronic Rheumatic Heart Disease	M	4	-	-	-	-	-	-	-	1	1	2	-	1
	F	3	-	-	-	-	-	-	-	-	-	1	1	1
Hypertensive Disease	M	5	-	-	-	-	-	-	-	-	-	-	2	3
	F	7	-	-	-	-	-	-	-	-	-	-	2	4



CAUSES OF DEATH AT DIFFERENT PERIODS OF LIFE DURING 1970 IN THE MUNICIPAL BOROUGH OF CREWE

-11-

CAUSE OF DEATH	Sex	Total All Ages	Under 4 Weeks	4 Weeks & Under 1 Year	Age in Years							
					1-	5-	15-	25-	35-	45-	55-	65-
Ischaemic Heart Disease	M	92	-	-	-	-	1	1	15	29	37	9
	F	48	-	-	-	-	-	1	1	6	22	18
Other Forms of Heart Disease	M	13	-	-	-	-	1	-	-	2	4	6
	F	20	-	-	-	-	-	-	1	1	7	11
Cerebrovascular Disease	M	47	-	-	-	1	-	1	4	7	17	17
	F	56	-	-	-	-	1	1	2	6	22	25
Other Diseases of Circulatory System	M	9	-	-	-	-	-	-	1	1	3	4
	F	10	-	-	-	-	-	-	-	-	3	7
Influenza	M	6	-	-	-	-	-	-	-	-	4	2
Pneumonia	M	9	-	-	-	-	-	-	-	-	2	6
	F	14	-	-	-	-	-	-	-	1	6	5
Bronchitis and Emphysema	M	13	-	-	-	-	-	-	-	2	5	6
	F	30	-	-	-	-	-	-	-	8	15	6
Asthma	M	14	-	-	-	-	-	-	1	3	6	3
	F	1	-	-	-	-	-	-	-	-	-	-
Other Diseases of Respiratory System	M	1	-	-	-	1	-	-	-	-	1	-
	F	1	-	-	-	-	-	-	-	-	-	-
Peptic Ulcer	M	5	-	-	-	-	-	1	1	-	2	1
	F	2	-	-	-	-	-	-	-	-	-	-
	M	1	-	-	-	-	-	-	-	-	1	-
	F	-	-	-	-	-	-	-	-	-	-	-

-cont'd-





CAUSES OF DEATH AT DIFFERENT PERIODS OF LIFE DURING 1970 IN THE MUNICIPAL BOROUGH OF CREWE

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CAUSE OF DEATH	Sex	Total All Ages	Under 4 Weeks	4 Weeks & Under 1 Year	Age in Years									
					1-	5-	15-	25-	35-	45-	55-	65-	75+	
Symptoms and Ill Defined Conditions  Motor Vehicle Accidents  All Other Accidents  Suicide and Self-Inflicted Injuries  All Other External Causes	M	20	-	-	-	-	-	-	-	-	-	-	3	17
	F	26	-	-	-	-	-	-	-	-	-	-	2	24
	M	2	-	-	-	2	-	-	-	-	-	-	-	-
	F	2	-	-	-	1	-	-	-	-	-	-	-	-
	M	4	-	-	-	2	-	-	1	1	-	-	-	-
	F	3	-	-	-	-	-	-	1	-	2	-	-	-
	M	3	-	-	-	-	-	1	1	-	1	-	-	-
	F	2	-	-	-	-	1	-	-	1	-	-	-	-
	M	1	-	-	-	-	-	-	-	1	-	-	-	-
	F	2	-	-	-	-	-	-	-	-	-	-	-	2
	M	350	8	4	1	-	6	4	8	29	76	125	89	
	F	313	7	3	1	2	3	1	5	20	39	103	129	

DEATHS OF CREWE INFANTS UNDER 1 YEAR OF AGE DURING 1970

CAUSE OF DEATH	Under 1 Day	DAYS										MONTHS										ALL
		1	2	3	4	5	6	7	14	21 to 28	1	2	3	4	5	6	7	8	9	10	11 to 12	
Other Diseases of Nervous System	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1
Pneumonia	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1
Bronchitis & Emphysema	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-	2
Other Diseases of Respiratory System	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	2
Internal Obstruction & Hernia	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Congenital Anomalies	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-	1	-	-	-	3
Birth Injury, Difficult Labour Etc.	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5
Other Causes of Perinatal Mortality	4	2	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	7
Total	9	2	-	-	-	-	-	3	-	1	2	2	1	-	1	-	-	1	-	-	-	22

NOTIFIED INFECTIOUS DISEASES 1970: Civilian (Corrected in cases of revised diagnosis)

	Under 1 Year	1-2 Years	2-3 Years	3-4 Years	4-5 Years	5-10 Years	10-15 Years	15-20 Years	20-25 Years	25-35 Years	35-45 Years	45-65 Years	Over 65 Years	Total
Scarlet Fever	-	-	-	-	-	2	-	2	-	-	-	-	-	4
Whooping Cough	-	-	3	2	4	9	-	-	-	-	-	-	-	18
Measles	9	31	35	29	30	57	1	2	-	1	1	-	-	197
Infective Jaundice	-	-	-	-	-	-	-	1	-	-	-	-	-	1
Food Poisoning	-	-	-	1	1	3	-	-	2	-	-	-	-	9
Dysentery	-	-	-	-	-	2	3	-	-	-	-	-	-	5

TUBERCULOSIS

Particulars of New Cases of Tuberculosis and  
Deaths During 1970

Age Group	New Cases				Deaths			
	Pulmonary		Non-Pulmonary		Pulmonary		Non-Pulmonary	
	M	F	M	F	M	F	M	F
Under 1 year	-	-	-	-	-	-	-	-
1 year - 4 years	-	-	-	-	-	-	-	-
5 years - 9 years	1	-	-	-	-	-	-	-
10 years - 14 years	-	-	-	-	-	-	-	-
15 years - 19 years	-	-	-	-	-	-	-	-
20 years - 24 years	2	-	-	-	-	-	-	-
25 years - 34 years	2	1	-	-	-	1	-	-
35 years - 44 years	-	-	-	-	-	-	-	-
45 years - 54 years	-	-	-	-	-	-	-	-
55 years - 64 years	-	-	-	-	-	-	-	-
65 +	-	1	-	-	1	-	-	-
Total	5	2	-	-	1	1	-	-

Particulars of New Cases and Deaths  
During the Last Five Years

	New Cases		Deaths	
	Pulmonary	Non-Pulmonary	Pulmonary	Non-Pulmonary
1966	6	-	9	-
1967	4	1	3	-
1968	5	1	5	-
1969	7	-	2	-
1970	8	-	2	-

The following tabulated summary indicates the number of cases remaining on the register at 31st December, 1970.

	Pulmonary		Non-Pulmonary	
	Male	Female	Male	Female
No. of cases on Register of Notifications on 1st January, 1970	69	31	2	2
No. of cases notified for the first time during the year	5	3	-	-
No. of cases transferred from other districts	-	-	-	-
No. of cases restored to Register	-	-	-	-
No. of cases removed from Register during the year on account of having				
(a) Recovered	5	2	-	-
(b) Removed from district	2	-	-	-
(c) Died	1	1	-	-
(d) Diagnosis not established	-	-	-	-
(e) Lost sight of	-	-	-	-
No. of cases remaining on the Register on 31st December, 1970	66	31	2	2

Of the 2 cases listed under (c) above, one died from other primary causes.

## VACCINATION AND IMMUNISATION

### Vaccination Against Smallpox

The number of primary vaccinations of persons under 16 years of age reported to me during the year was 310, showing an increase of 95 on the previous year.

	Age at date of vaccination					
	Years				Total	
	Under 1	1	2-4	5-15	Clinics	By G.P.'s
Vaccinated	20	75	212	3	-	310
Re-vaccinated	-	-	-	5	-	5

### Diphtheria Immunisation

During the year notifications received from Medical Practitioners showed the 669 children were immunised against diphtheria. In addition 410 children received a boosting dose to improve their immunity.

The corresponding figures for 1969 were 385 and 377.

No case of diphtheria was notified during 1970, and it is now 20 years since a case of diphtheria has been notified in the Borough.

Diphtheria, Whooping Cough, Tetanus, Poliomyelitis and  
Measles Vaccinations of Persons under 16 years of age  
Completed During 1970

A. Completed Primary Courses - Number of Persons under age 16

Type of vaccine or dose	Year of birth					Others under age 16	Total	
	1970	1969	1968	1967	1963 -66		At clinics	By G.P.s
Triple DTP	122	424	53	10	14	13	-	636
Diphtheria/ Pertussis	-	-	-	-	-	-	-	-
Diphtheria/ Tetanus	1	20	6	1	4	1	-	33
Diphtheria	-	-	-	-	-	-	-	-
Pertussis	-	-	-	-	-	-	-	-
Tetanus	3	2	-	-	31	44	-	80
Salk	-	-	-	-	-	-	-	-
Sabin	121	437	61	10	19	2	-	650
Measles	1	4	47	30	24	510	503	113
Rubella	-	-	-	-	-	77	75	2

B. Reinforcing Doses - Number of persons under age 16

Type of vaccine or dose	Year of birth					Others under age 16	Total	
	1970	1969	1968	1967	1963 -66		At clinics	By G.P.s
Triple DTP	-	1	25	3	138	40	-	207
Diphtheria/ Pertussis	-	-	-	-	-	-	-	-
Diphtheria/ Tetanus	-	3	73	1	124	2	-	203
Diphtheria	-	-	-	-	-	-	-	-
Pertussis	-	-	-	-	-	-	-	-
Tetanus	-	-	-	1	9	52	-	62
Salk	-	-	-	-	-	-	-	-
Sabin	-	4	97	2	222	240	138	427



#### MEDICAL EXAMINATIONS

During the year 399 persons were referred to me for medical assessment. Of these 104 were assessed in conjunction with the Corporation's Superannuation and Sickness Pay Scheme. 77 were County Staff or persons seeking entry into a Training College, 13 were of persons applying for a Taxi Driver's Licence.

#### MORTUARY FACILITIES

The Corporation Mortuary was closed on 1st January, 1962, and the arrangements made with the South Cheshire Hospital Management Committee have continued entirely satisfactorily. During the year the Corporation paid fees in respect of 85 bodies received at the Crewe Memorial Hospital Mortuary.

#### CREWE AND DISTRICT COMMITTEE FOR MORAL WELFARE WORK

The Reverend O.J. Horrocks has supplied the following information on the work of the Committee during 1970.

"There were 110 applications for help in 1970. Of these 110 applications 69 were maternity, and of the 69, 33 mothers kept their babies and 25 gave them for adoption. At the end of the year the rest were undecided. The remaining 41 enquiries were about adoption and family problems."

It must be borne in mind that the Committee's activities cover a larger area than the Borough of Crewe.

#### FOOD POISONING

50 cases of suspected food poisoning were reported during the year. However, after investigation 9 were confirmed.



ANNUAL REPORT OF  
THE CHIEF PUBLIC HEALTH INSPECTOR  
FOR THE YEAR 1970  
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Chief Public Health Inspector's  
Department,  
Municipal Buildings,  
Earle Street, CREWE.

October, 1971.

To the Mayor, Aldermen and  
Councillors of the Borough  
of Crewe.

Mr. Mayor, Ladies and Gentlemen,

I submit herewith my report for the work of the Public Health  
Inspector's Department for the year 1970.

When preparing this report, one looks not only to the past but to  
the future and local government reorganisation. The Government's  
proposals for a two-tier system allocate environmental health functions,  
except those of a food and drugs authority and refuse disposal, to the  
new district councils.

There is undoubtedly a large volume of opinion which favours the  
view that all environmental health functions in every area should be  
the responsibility not only of one authority but that environmental  
health should be regarded as a single comprehensive concept.

The following report illustrates the wide range of duties of a  
public health inspector but as in other walks of local government, a  
great deal of the department's work cannot be presented statistically.

The past years have brought many technical changes in the production  
and distribution of food with a corresponding increase in the amount of  
food legislation. So, too, the interest of the general public in safe  
and sound food appears to have increased and to maintain satisfactory  
standards, the regular visits to food premises are backed by a sampling  
programme covering both the chemical and bacteriological examination of  
food stuffs.

The maintenance of satisfactory housing units in the private  
sector will undoubtedly be affected by the increase in owner-occupation  
and changing rent levels and it will be interesting to see the future  
effect of these factors, together with the implementation of general

improvement areas, on the housing stocks in the Borough. The figures printed in the report in relation to qualification certificates perhaps provide a comment of the current situation, when out of 86 applications received to the end of 1970, only 5 were approved for the issue of qualification certificates.

The department continued to co-operate with the Department of Trade and Industry in recording smoke and sulphur dioxide concentrations, and in this respect was fortunate in receiving the continued assistance of the staff of British Railways Scientific Services Laboratory at Crewe.

In conclusion, I wish to take the opportunity of thanking the elected representatives, the staff of the department and other officers and their staffs for their help and support.

R.E. PLATT,

Chief Public Health Inspector.

SANITARY CIRCUMSTANCES OF THE AREA

PUBLIC CLEANSING

The removal of household and trade refuse is based on a weekly collection service and with the exception of holiday periods, this frequency of collection was maintained generally throughout the Borough.

The Cleansing Department operates a Refuse Disposal Plant and has a separate Garage and Workshop.

11 vehicles (including 1 spare vehicle) are employed on the collection of household and trade refuse and nightsoil, in addition to 1 vehicle used in connection with refuse disposal.

Household refuse collected ... ..	12,030 tons
Trade refuse collected ... ..	<u>1,953 tons</u>
Total refuse collected by the Department during the year	<u>13,983 tons</u>

3,430 tons of shop and factory refuse were also brought to the Refuse Disposal Works for disposal, making a total of 17,413 tons of refuse dealt with during the year. 35% of the total refuse passed through the works while the remainder was disposed of by controlled tipping.

The estimated amount of nightsoil collected during the year was 104 tons.

A separate Annual Report is issued for the Public Cleansing service in the Borough.

SANITARY ACCOMMODATION

There are still a number of privy pails in the Borough, situated in the present unsewered northern area of the town.

## WATER SUPPLY

The water supply to the district is provided by the Mid and South East Cheshire Water Board. The water is not plumbo-solvent and all dwelling houses are supplied direct from the mains.

A copy of the typical characteristics of the water delivered to Crewe from Hurleston is given below:

### PHYSICAL CHARACTERISTICS

Clear, colourless, odourless and no deposit.

p.H. 7.2

### MINERAL CHARACTERISTICS

					<u>Parts per million</u>
Free ammonia	...	...	...	...	0.07
Albuminoid ammonia	...	...	...	...	0.14%
Nitrites	...	...	...	...	Nil
Nitrates	...	...	...	...	0.66
Total Hardness	...	...	...	...	155.00
Temporary hardness	...	...	...	...	105.00
Permanent hardness	...	...	...	...	50.00
Oxygen absorbed from $\text{KMnO}_4$ (4 hours $27^\circ\text{C}$ )	...	...	...	...	0.64
Lead and other heavy metals	...	...	...	...	negligible
Chlorides	...	...	...	...	26.00

43 samples of water taken from premises throughout the Borough were submitted by my department for bacteriological and chemical examination and all but 1 proved satisfactory. Immediate notification of this sample was sent to the Water Board for their attention.

NUMBER AND NATURE OF COMPLAINTS

The Department received 1,680 complaints during the year from householders, shopkeepers and others relating to numerous matters, as set out in the table below.

NATURE OF COMPLAINT

Disrepair - General	...	...	...	...	...	...	...	61
Defective chimneys and firegrates	...	...	...	...	...	...	...	4
Roofs	...	...	...	...	...	...	...	13
Eaves, gutters and spoutings	...	...	...	...	...	...	...	9
Burst water pipes	...	...	...	...	...	...	...	11
Dampness	...	...	...	...	...	...	...	27
Defective water closets	...	...	...	...	...	...	...	28
Choked drains	...	...	...	...	...	...	...	498
Flooding	...	...	...	...	...	...	...	15
Yards and passages	...	...	...	...	...	...	...	23
Accumulations	...	...	...	...	...	...	...	28
Dirty premises	...	...	...	...	...	...	...	22
Vermin	...	...	...	...	...	...	...	41
Beetles, cockroaches etc.	...	...	...	...	...	...	...	76
Ants...	...	...	...	...	...	...	...	128
Rats...	...	...	...	...	...	...	...	339
Mice...	...	...	...	...	...	...	...	121
Pigeons	...	...	...	...	...	...	...	8
Foul and obnoxious odours	...	...	...	...	...	...	...	23
Smoke nuisances	...	...	...	...	...	...	...	8
Water supply	...	...	...	...	...	...	...	16
Abandoned cars	...	...	...	...	...	...	...	18
Improvement grant enquiries	...	...	...	...	...	...	...	87
Miscellaneous	...	...	...	...	...	...	...	76

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1,680

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INSPECTIONS

Nature of inspections made	Num- ber	Number of Notices served		Result of Notices served		Pro- secu- tions
		Infor- mal	Stat- utory	Com- plied with	Remain- ing in hand	
Dwelling houses (P.H.Act)	220	125	41	104	62	2
Dwelling houses (Hsg.Act)	322	-	-	-	-	-
Rapid Housing Survey	108	-	-	-	-	-
Improvement Grants	690	-	-	-	-	-
Rent Act Certificates	142	-	-	-	-	-
Verminous Houses	201	-	-	-	-	-
Moveable dwellings	31	-	-	-	-	-
Yards and passages	69	-	-	-	-	-
Drains and sewers	1853	-	840	840	-	-
Ditches and watercourses	64	-	-	-	-	-
Offensive accumulations	168	-	-	-	-	-
Keeping of Animals	36	-	-	-	-	-
Offensive Trades	68	-	-	-	-	-
Places where food is prepared or sold	1062	224	-	156	68	-
Factories -						
with mechanical power	41	2	-	2	-	-
with no mechanical power	6	-	-	-	-	-
Workplaces	6	-	-	-	-	-
Offices, Shops and Railway Premises Act	272	23	-	14	9	1
Clean Air	1046	-	4	4	-	-
Notifiable Infectious Diseases (enquiries and revisits)	203	-	-	-	-	-
Houses re. overcrowding	27	-	-	-	-	-
Milk samples	180	-	-	-	-	-
Ice Cream samples	42	-	-	-	-	-
Water supply and samples	162	-	-	-	-	-
Food & Drugs (including samples)	216	-	-	-	-	6
Application for Corpora- tion houses	103	-	-	-	-	-
Rodent Control	115	-	-	-	-	-
Diseases of Animals Acts	216	-	-	-	-	-
Explosive & Petroleum Acts	142	7	-	7	-	-
Miscellaneous	968	-	-	-	-	-
Re-inspections	1364	-	-	-	-	-
Noise	71	-	-	-	-	-
Civic Amenities Act	372	3	3	6	-	-
Miscellaneous food samples	99	-	-	-	-	-
TOTALS	10685	384	888	1133	139	9



# INFECTIOUS DISEASE AND DISINFECTION

Number of premises visited where a notifiable disease has occurred	...	...	...	...	...	...	...	5
Number of notified cases of suspected food poisoning visited	...	...	...	...	...	...	...	36
Number of Library Books disinfected -								
(a) from Public Library	...	...	19					
(b) from Private Libraries	...	...	-	...				19

## DISINFESTATION

The following table shows the number of verminous premises treated during 1970.

	Number found to be infested		Number of Premises Disinfested
	Premises	Rooms	
Council Houses ... ..	11	44	11
Other Houses ... ..	5	15	5
Cases confirmed after complaint of infestation	12	-	12
Cases found by Public Health Inspectors ...	4	-	4
Houses disinfested by Corporation ... ..	-	-	16
Houses disinfested by Contractors ... ..	-	-	-

The work of disinfestation was carried out by the use of D.D.T. and patent fumigant solutions.

In addition to the premises listed above, 152 houses were treated for infestations of beetles, ants, etc.

### SWIMMING BATHS

The only Public Swimming Baths in the Borough are owned by the Corporation and contain two swimming pools, slipper and private wash baths and various other amenities.

During the year, 63 samples of bath water were submitted for bacteriological and chemical examination and 9 samples were unsatisfactory, but subsequent samples proved satisfactory.

### OFFENSIVE TRADES

The following offensive trade is carried on in the Borough.

Bone Boiler and Fat Extractor	...	1
-------------------------------	-----	---

In addition to the above, 33 persons are registered under the Scrap Metal Dealers Act, 1964.

### RAG FLOCK

Number of licensed premises used for the manufacture of, or storage of Rag Flock	...	-
---	-----	---

Number of registered premises where filling materials are used	...	...	...	1
---	-----	-----	-----	---

### COMMON LODGING HOUSES

There are no common Lodging Houses in the Borough.



# HOUSING STATISTICS

1. <u>Number of New Houses erected during the year:</u>						
(a)	by the local authority	...	...	...	...	202
(b)	by other authorities	...	...	...	...	Nil
(c)	by other bodies or persons	...	...	...	...	76
2. <u>Inspection of dwelling houses during the year:</u>						
(a)	Total number of houses inspected for housing defects (under Public Health Acts or Housing Act)	...	...	...	...	235
(b)	Number of inspections made for the purpose	...	...	...	...	542
(c)	Number of dwelling houses found to be unfit for habitation -					
(i)	and included or to be included in Clearance Areas	...	...	...	...	105
(ii)	in respect of which demolition or closing orders were made	...	...	...	...	5
(d)	Number of dwelling houses (exclusive of those in (c)) found not to be in all respects fit for habitation	...	...	...	...	125
3. <u>Remedy of defects without service of Formal notices</u>						
Number of defective dwelling houses rendered fit in consequence of informal action by the local authority or their officers						79
4. <u>Action under Statutory Powers</u>						
(a)	Proceedings under Section 9 and 10 of the Housing Act 1957 -					
(1)	Number of dwelling houses in respect of which notices were served requiring repairs	...	...	...	...	Nil
(2)	Number of dwelling houses which were rendered fit after service of formal notices -					
(a)	by owners	...	...	...	...	Nil
(b)	by Local Authority in default of owners	...	...	...	...	Nil

(b) Proceedings under Public Health Acts -

(1)	number of dwelling houses in respect of which notices were served requiring defects to be remedied	...	...	...	41
(2)	number of dwelling houses in which defects were remedied after service of formal notices -				
(a)	by owners	...	...	...	25
(b)	by local authority in default of owners	...	...	...	-
(c) (i)	number of undertakings to carry out works in lieu of demolition accepted by the Council	...	...	...	-
(ii)	number of dwellings in respect of which Closing Orders were determined	...	...	...	1

5. Housing Act 1957 - Part IV - Overcrowding

(a) (1)	Number of dwellings overcrowded at end of year...	...	...	...	2
(2)	Number of families dwelling therein	...	...		2
(3)	Number of persons dwelling therein	...	...	...	19
(b)	Number of cases of overcrowding reported during the year	...	...	...	-
(c) (1)	Number of cases of overcrowding relieved during the year	...	...	...	1
(2)	Number of persons concerned in such cases	...	...	...	8
(d)	Particulars of any cases in which dwelling houses have again become overcrowded after the local authority have taken steps for the abatement of overcrowding	...	...	...	-

HOUSING CLEARANCE PROGRAMME

The following table shows the progress made since 1955 to the end of the year with the Slum Clearance Programmes

Description of Property	Number of Properties in Area		Date of Representation of Report	Date of Confirmation of Order	Number of families rehoused 3/11/55 - 31/12/70	Number of properties demolished to 31/12/70
	'Pink'	'Grey'				
<b>1. CLEARANCE AREAS:</b>						
West Ward No. 2 (Naylor Street) Compulsory Purchase Order 1956	87	-	5/6/56	5/4/57	79	87
West Ward No. 3 (Stafford Street) Clearance Order 1957	8	-	5/6/56	19/6/57	7	8
Central Ward No. 4 (Foundry Street) Clearance Order 1957	15	-	4/6/57	11/3/58	13	15
North Ward No. 8 (Earle Street) Clearance Order 1957	7	-	4/6/57	19/11/57	7	7
North Ward No. 9 (Martin Street) Clearance Order 1957	15	-	13/8/57	8/7/58	13	15
South Ward No. 2 (Railway Street) Clearance Order 1957	18	-	13/8/57	22/9/58	18	18
West Ward No. 4 (Stafford Street & Henshaw Street) Clearance Order 1958	10	-	4/6/58	9/7/59	10	10
South Ward No. 3 (Mill Street) Clearance Order 1958	6	-	12/8/58	8/5/59	4	6
c/f	166	-	-	-	151	166

Description of Property	Number of Properties in Area		Date of Representation of Report	Date of Confirmation of Order	Number of families rehoused 3/11/55 - 31/12/70	Number of properties demolished to 31/12/70
	'Pink'	'Grey'				
b/f	166	-	-	-	151	166
	15	-	12/8/58	19/5/59	14	15
	14	-	12/8/58	8/4/59	13	14
	12	-	12/8/58	14/4/59	12	12
	3	-	12/8/58	8/4/59	3	3
	2	-	7/10/58	8/4/59	3	2
	83	2	7/4/59	12/9/60	85	85
	20	-	2/6/59	21/7/60	19	20
	186	3	12/4/60	5/10/61	171	189
	45	-	4/8/61	5/4/62	39	45
c/f	546	5	-	-	510	551

## HOUSING CLEARANCE PROGRAMME, Cont.

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Description of Property	Number of Properties in Area		Date of Representation of Report	Date of Confirmation of Order	Number of families rehoused 3/11/55 - 31/12/70	Number of properties demolished to 31/12/70
	'Pink'	'Grey'				
b/f						
South Ward No. 4 (Mill Street) Compulsory Purchase Order 1962	546	5	-	-	510	551
Central Ward No. 10 (Chester Street West) Clearance Order 1962	2	-	10/4/62	30/10/62	2	2
Central Ward No. 11 (John Street) Clearance Order 1962	2	-	10/4/62	2/11/62	2	2
West Central Ward No. 1 (Peel Street) Clearance Order 1962	2	-	10/4/62	4/1/63	2	2
West Central Ward No. 2 (Dale Street) Clearance Order 1962	8	-	10/4/62	17/1/63	7	8
West Central Ward No. 3 (West Street/Stafford Street) Compulsory Purchase Order 1962	6	-	10/4/62	2/11/62	6	6
North East Ward No. 1 (Chapel Lane) Clearance Order 1962	64	8	10/4/62	9/4/63	55	72
Central Ward No. 12 (Oakley Street/Beech Street) Compulsory Purchase Order 1963	10	-	10/4/62	18/10/62	7	10
Central Ward No. 15 (Oakley Street/Beech Street) Clearance Order 1963	56	4	9/4/63	12/5/64	50	59
	19	-	9/4/63	12/5/64	14	19
c/f	715	17	-	-	655	731



HOUSING CLEARANCE PROGRAMME, Cont.

Description of Property	Number of Properties in Area		Date of Representation of Report	Date of Confirmation of Order	Number of families rehoused 3/11/55 - 31/12/70	Number of properties demolished to 31/12/70
	'Pink'	'Grey'				
b/f	715	17	-	-	655	731
West Ward No. 7 (Collins Street) Clearance Order 1963	25	-	12/2/63	8/11/63	24	25
South East Ward No. 1 (Bridge Street) Compulsory Purchase Order 1963	27	1	12/3/63	14/1/64	24	28
West Central Ward No. 5 (Derby Street/Grosvenor Street) Compulsory Purchase Order 1963	54	10	12/11/63	12/1/65	52	64
Borough of Crewe No. 14 (Mill Street/Station Street) Compulsory Purchase Order 1965	210	40	12/1/65	2/12/66	178	243
Borough of Crewe No. 52 (Broom Street/Jackson Street) Clearance Order 1965	68	-	9/11/65	4/1/67	59	68
Borough of Crewe No. 53 (Underwood Lane) Clearance Order 1965	6	-	9/11/65	4/1/67	5	5
Borough of Crewe No. 54 (Samuel Street) Clearance Order 1965	6	-	9/11/65	14/9/67	5	6
Borough of Crewe No. 55 (Samuel Street) Clearance Order 1965	8	-	9/11/65	14/9/67	5	8
c/f	1119	68	-	-	1007	1178

HOUSING CLEARANCE PROGRAMME, Cont.

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Description of Property	Number of Properties in Area		Date of Representation of Report	Date of Confirmation of Order	Number of families rehoused 3/11/55 - 31/12/70	Number of properties demolished to 31/12/70
	'Pink'	'Grey'				
b/f Borough of Crewe No. 56 (Barnfield) Compulsory Purchase Order 1966 Borough of Crewe No. 57 (Stanley Street) Clearance Order 1965 Borough of Crewe No. 58 (Camden Street) Clearance Order 1965 Borough of Crewe No. 59 (Thomas Street) Clearance Order 1965 Borough of Crewe No. 60 (William Street) Clearance Order 1965 Borough of Crewe No. 61 (William Street) Clearance Order 1965 Borough of Crewe No. 62 (North Street) Clearance Order 1965 Borough of Crewe No. 63 (Station Street) Clearance Order 1966 Borough of Crewe No. 64 (Mill Street) Clearance Order 1967	1119	68	-	-	1007	1178
	25	1	9/11/65	4/1/67	16	26
	2	-	9/11/65	4/1/67	1	2
	5	-	9/11/65	14/9/67	5	5
	4	-	9/11/65	14/9/67	4	4
	15	-	9/11/65	14/9/67	14	15
	26	-	9/11/65	14/9/67	26	26
	2	-	9/11/65	14/9/67	-	2
	2	-	8/2/66	2/12/66	1	2
	8	-	3/2/65	23/10/67	7	8
c/f	1208	69	-	-	1081	1268

HOUSING CLEARANCE PROGRAMME, Cont.

Description of Property	Number of Properties in Area		Date of Representation of Report	Date of Confirmation of Order	Number of families rehoused 3/11/55 - 31/12/70	Number of properties demolished to 31/12/70
	'Pink'	'Grey'				
b/f						
Borough of Crewe No. 16 (Donkinson's Oak) Compulsory Purchase Order 1967	1208	69	-	-	1081	1268
Borough of Crewe No. 17 (Albert Street) Compulsory Purchase Order 1967	14	-	8/8/67	30/5/68	11	-
Borough of Crewe No. 18 (Flag Lane) Compulsory Purchase Order 1967	28	3	7/11/67	16/8/68	24	31
Borough of Crewe No. 19 (John Street/Chetwode Street) Compulsory Purchase Order 1968	3	-	7/11/67	24/4/68	3	3
Borough of Crewe No. 20 (Broad Street/John Street/Alban Street) Compulsory Purchase Order 1970	128	50	6/12/67	2/4/69	107	1
Borough of Crewe No. 21 (Mill Street) Compulsory Purchase Order 1970	155	41	7/1/70	-	-	-
Borough of Crewe No. 78 (New Street) Clearance Order 1970	5	-	7/4/70	22/10/70	-	-
	100	-	7/9/70	-	-	-
c/f	1641	163	-	-	1226	1303



HOUSING CLEARANCE PROGRAMME, Cont.

Description of Property	Number of Properties in Area		Date of Representation of Report	Date of Confirmation of Order	Number of families rehoused 3/11/55 - 31/12/70	Number of properties demolished to 31/12/70
	'Pink'	'Grey'				
2. AREAS DEALT WITH INFORMALLY WITH THE APPROVAL OF THE MINISTRY OF HOUSING AND LOCAL GOVERNMENT	b/f					
Park Place	1641	163	-	-	1226	1303
3. HOUSES BELONGING TO THE CORPORATION	67	-	19/4/56	9/7/57	65	67
<u>DEMOLISHED</u>						
During 1954	6	-	-	-	3	6
During 1956	3	-	-	-	2	3
During 1958	4	-	-	-	4	4
During 1959	3	-	-	-	2	3
During 1960	4	-	-	-	3	3
During 1961	1	-	-	-	1	1
During 1964	3	-	-	-	1	3
During 1967	1	-	-	-	-	-
During 1968	-	-	-	-	-	-
During 1969	-	-	-	-	-	-
During 1970	68	-	-	-	17	1
c/f	1801	163	-	-	1324	1394

HOUSING CLEARANCE PROGRAMME, Cont.

-38-

Description of Property	Number of Properties in Area		Date of Representation of Report	Date of Confirmation of Order	Number of families rehoused 3/11/55 - 31/12/70	Number of Properties demolished to 31/12/70
	'Pink'	'Grey'				
b/f	1801	163	-	-	1324	1394
4. HOUSES DEALT WITH BY INDIVIDUAL DEMOLITION OR CLOSING						
(a) Demolition Orders:						
During 1955	1	-	-	-	1	1
During 1956	4	-	-	-	3	4
During 1957	9	-	-	-	6	9
During 1958	11	-	-	-	9	11
During 1959	14	-	-	-	12	14
During 1960	3	-	-	-	2	3
During 1961	1	-	-	-	-	1
During 1963	5	-	-	-	4	5
During 1964	2	-	-	-	2	2
During 1965	1	-	-	-	2	1
During 1966	3	-	-	-	-	1
During 1967	8	-	-	-	2	1
During 1968	2	-	-	-	6	8
During 1969	9	-	-	-	2	2
During 1970	-	-	-	-	4	6
c/f	1874	163	-	-	1377	1462

HOUSING CLEARANCE PROGRAMME, Cont.

-39-

Description of Property	Number of Properties in Area		Date of Representation of Report	Date of Confirmation of Order	Number of families rehoused 3/11/55 - 31/12/70	Number of properties demolished to 31/12/70
	'Pink'	'Grey'				
b/f	1874	163	-	-	1377	1462
4. HOUSES DEALT WITH BY INDIVIDUAL <u>DEMOLITION OR CLOSING</u> (b) <u>Closing Orders:</u>						
During 1959	1	-	-	-	1	-
During 1960	4	-	-	-	4	2
During 1962	3	-	-	-	3	-
During 1963	2	-	-	-	2	-
During 1964	1	-	-	-	1	-
During 1965	2	-	-	-	3	-
During 1966	3	-	-	-	3	-
During 1967	2	-	-	-	2	-
During 1968	3	-	-	-	1	-
During 1969	8	-	-	-	4	-
During 1970	5	-	-	-	2	-
	1908	163	-	-	1403	1464

# IMPROVEMENT GRANTS

	Total to 31st December, 1969	During 1970	Total to 31st December, 1970
1. Number of applications received for standard grants	599	44	643
2. Number of applications refused	2	-	2
3. Number of applications granted	597	44	641
Approved expenditure	£94,619.63p	£6,081.64p	£100,701.27p
Approved grant	£47,309.81p	£3,040.82p	£50,350.63p
4. Average grant per house	£79.25p	-	£78.55p
5. Number of applications received for improvement grants	-	8	8
6. Number of applications granted	-	8	8
Approved expenditure	-	£4,379.58p	£4,379.58p
Approved grant	-	£2,189.79p	£2,189.79p
7. Average grant per house	-	-	£273.72p
8. Number of applications withdrawn	22	-	22
Approved expenditure	£3,131.37p	-	£3,131.37p
Approved grant	£1,565.68p	-	£1,565.68p
9. Number of grants completed	559	40	599
10. Number of grants repaid	34	2	36
Amount of grants repaid	£1,685.64p	£69.92p	£1,755.56p

CERTIFICATES OF DISREPAIR

Rent Act 1957

Part I - Applications for Certificates of Disrepair

Number of applications for certificates	...	...	...	...	1
Number of decisions not to issue certificates	...	...	...	...	-
Number of decisions to issue certificates -					
(a) in respect of some but not all defects	...	...	...	...	-
(b) in respect of all defects	...	...	...	...	-
Number of undertakings given by landlords under paragraph 5 of the first schedule	...	...	...	...	1
Number of undertakings refused by Local Authority under proviso to paragraph 5 of the first schedule	...	...	...	...	-
Number of certificates issued	...	...	...	...	-

Part II - Applications for Cancellations of Certificates

Number of applications by landlords to Local Authority for cancellation of certificates...	...	...	...	...	1
Number of objections by tenants to cancellation of certificates	...	...	...	...	1
Number of decisions by Local Authority to cancel in spite of tenant's objections	...	...	...	...	-
Number of certificates cancelled by Local Authority	...	...	...	...	-

HOUSING ACT 1959

RETURN OF QUALIFICATION CERTIFICATES ISSUED

Improvement Cases:

Number of applications for qualification certificates under Section 44(2) under consideration at end of period	...	...	...	...	...	Nil
Number of certificates of provisional approval issued...	...	...	...	...	...	Nil
Number of qualification certificates issued under section 46(3)	...	...	...	...	...	Nil

STANDARD AMENITIES ALREADY PROVIDED

Number of applications for qualification certificates under section 44(1) under consideration at end of 1969	...	...	...	...	...	30
Number of applications received during the year	...	...	...	...	...	56
Number of qualification certificates issued under section 45(2) in respect of:						
(i) dwellings with a rateable value of £60 or more	...	...	...	...	...	1
(ii) dwellings with a rateable value of £40 to less than £60	...	...	...	...	...	4
(iii) dwellings with a rateable value of less than £40	...	...	...	...	...	Nil
Number of applications refused	...	...	...	...	...	78
Number of applications under consideration at end of year	...	...	...	...	...	3

Exemption for low income tenants from section 54

Number of certificates issued under section 55	...	...	Nil
--	-----	-----	-----



FACTORIES ACT 1961

1. INSPECTIONS for purposes of provisions as to health (including inspections made by Public Health Inspectors).

Particulars	Number on Register	Inspection	Number of	
			Written Notices	Occupiers Prosecuted
(i) Factories in which Sections 1, 2, 3, 4 and 6 are to be enforced by Local Authorities	6	6	-	-
(ii) Factories not included in (i) in which Section 7 is enforced by the Local Authority	169	41	2	-
(iii) Other premises in which Section 7 is enforced by the Local Authority (excluding out-workers premises)	5	6	-	-
TOTAL	180	53	2	-

2. CASES in which defects were found

Particulars	Number of cases in which defects were found			
	Found	Remedied	Referred to H.M. Inspector	Referred by H.M. Inspector
Sanitary Conveniences (S.7)				
(a) Insufficient	-	-	-	-
(b) Unsuitable or defective	2	2	-	1
(c) Not separate for sexes	-	-	-	-
TOTAL	2	2	-	1

3. OUTWORKERS. Lists required by Section 110 were received relating to 43 outworkers all engaged in making wearing apparel.



Offices, Shops and Railway Premises Act, 1963

The above mentioned Act which came into force during 1964 contained provisions relating to the health, safety and welfare of employees in offices, shops and certain other premises. The following tables, have been abstracted from the annual report submitted to the Ministry of Labour.

Registration and General Inspections

Class of premises	Number of premises registered during the year	Total number of Registered premises at end of year	Number of registered premises receiving a general inspection during the year
Offices	13	142	16
Retail shops	8	381	8
Wholesale shops, warehouses	-	20	-
Catering establishments open to the public, canteens	1	58	68
Fuel storage depots	-	2	-
TOTALS	22	603	92

NUMBER OF VISITS OF ALL KINDS BY INSPECTORS TO REGISTERED PREMISES - 272

Analysis of persons employed in Registered Premises

Class of workplace	Number of persons employed
Offices	1,663
Retail shops	1,990
Wholesale departments, warehouses	292
Catering establishments open to the public	411
Canteens	10
Fuel storage depots	18
TOTAL	4,384
Total Males	1,980
Total Females	2,404

Exemptions and Prosecutions

No exemptions were applied for during the year.

Contraventions found

Premises requiring cleansing in some form	...	...	...	...	6
Provision of heating and/or thermometer	...	...	...	...	8
Inadequate ventilation	...	...	...	...	4
Defective or inadequate sanitary accommodation	...	...	...	...	4
Defective or inadequate washing facilities	...	...	...	...	6
Inadequate drinking water facilities	...	...	...	...	-
Absence of adequate facilities for storage of outdoor clothing...	...	...	...	...	-
Lack of adequate eating facilities in shops	...	...	...	...	-
Defective floors, passages or staircases	...	....	...	...	2
Lack of First Aid Equipment	...	...	...	...	7
Overcrowding	...	...	...	...	-
Inadequate lighting	...	...	...	...	1
Sitting facilities	...	...	...	...	1
Fencing exposed parts of machinery	...	...	...	...	1
No abstract posted	...	...	...	...	14
Failure to register	...	...	...	...	4

Prosecutions

During the year one shopkeeper was prosecuted and convicted on four offences.

# Accidents

13 accidents were reported during the year, details of which are given in the following tables.

## Reported Accidents

Workplace	Number reported	Total number investigated	Action Recommended			No Action
			Prosecution	Formal Warning	Informal Advice	
Offices	-	-	-	-	-	-
Retail shops	9	5	-	-	5	-
Wholesale shops, warehouses	2	2	-	-	2	-
Catering establishments open to public, canteens	2	2	-	-	2	-
Fuel storage depots	-	-	-	-	-	-
TOTALS	13	9	-	-	9	-

## Analysis of Reported Accidents

	Offices	Retail shops	Wholesale warehouses	Catering Establishments	Fuel Storage Depots
Machinery	-	-	-	-	-
Transport	-	-	1	-	-
Hand tools	-	1	-	-	-
Falls of persons	-	3	1	1	-
Stepping on or striking against object or person	-	1	-	-	-
Handling goods	-	3	-	1	-
Struck by falling object	-	-	-	-	-
Not otherwise specified	-	1	-	-	-
TOTALS	-	9	2	2	-

RODENT CONTROL

The Corporation employ two full-time rodent operators and the extermination methods employed are poisoning, gassing and trapping. The following table summarises the work carried out:-

	Type of Property			Total
	Local Auth.	Dwell. Houses	Bus. Prem.	
<u>NUMBER OF PROPERTIES INSPECTED:</u>				
(1) Primary Inspections:				
(a) as a result of notification	18	297	45	360
(b) otherwise ... ..	-	264	-	264
(2) Re-inspections:				
(a) as a result of notification	2	14	5	21
(b) otherwise ... ..	-	14	-	14
Total Properties inspected ... ..	20	589	50	659
<u>Number of Properties found to be infested by RATS:</u>				
(1) Primary inspections:				
(a) Major ... ..	-	-	-	-
(b) Minor ... ..	9	409	24	442
(2) Re-infestations:				
(a) Major ... ..	-	-	-	-
(b) Minor ... ..	1	26	1	28
<u>Number of Properties found to be infested by MICE:</u>				
(1) Primary inspections ... ..	4	136	20	160
(2) Re-inspections ... ..	1	2	4	7
Total infestations found ... ..	15	573	49	637
<u>Number of infested Properties treated by Local Authority:</u>				
(1) Primary treatments:				
(a) for RATS ... ..	9	347	17	373
(b) for MICE ... ..	4	116	18	138
(2) Treatments for re-infestation				
(a) for RATS ... ..	-	17	1	18
(b) for MICE ... ..	-	3	1	4
TOTAL Treatments ... ..	13	483	37	533

NOTE: A treatment means a complete treatment for the destruction of rats and mice and includes not only the initial treatment, but when necessary, post-baiting and follow-up treatment.

RODENT CONTROL, Cont.

Following the treatments carried out, 586 rats and 334 mice were picked up, whilst the estimated kill was 2,382 rats and 1,070 mice.

During the year the rodent operators paid 6,097 visits in connection with the inspection and treatment of premises.

Two maintenance treatments of the sewers were also carried out. 884 manholes were baited and 645 takes of poison bait were recorded, showing an estimated kill of 1,600 rats.

PET ANIMALS ACT 1951

There are nine premises in the Borough licensed for the sale of pet animals. All these premises comply with the recommended conditions of the Royal Society for the Prevention of Cruelty to Animals, which were adopted by the Council.

PETROLEUM AND EXPLOSIVE ACTS

The number of licences issued under the Petroleum Acts 1928-36 during 1970 was as follows:

Storage of petroleum spirit -

(a) petrol filling stations	...	...	23
(b) petrol tank stores for own use	...		25
(c) other petrol stores	...	...	18

Storage of carbide of calcium      ...      ...      4

Four of the licensed petrol filling stations are of the self-service post payment type and to date, have operated satisfactorily.

During the year, three petrol storage tanks were tested and found to be satisfactory while four underground storage tanks were taken out of service.

7 notices relating to contraventions of the Regulations were served during the year and all have been complied with.

53 premises were registered under the Explosive Acts, 1875, for the storage of fireworks.

42 visits to premises for the above purposes were made during the year.



DISEASES OF ANIMALS ACTS

In the Borough there is one market, privately owned, which is licensed under the above legislation.

Number of Markets held	...	...	...	...	106
------------------------	-----	-----	-----	-----	-----

Animals exposed for sale -

(a) pigs	...	...	...	...	23,419
----------	-----	-----	-----	-----	--------

(b) imported cattle	...	...	...	590
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Number of movement licences issued	...	...	2,016
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Prior to Christmas, a special sale of poultry for immediate slaughter was also held.

In addition to the supervision of the markets, routine visits are made to farm premises to check records of animal movements.

Under the Diseases of Animals (Waste Food) Order, 1957, plants are licensed for the boiling of waste food. 5 such plants are licensed in the Borough.

The total number of visits made during the year under these Acts was 216.



# INSPECTION AND SUPERVISION OF FOOD

## FOOD HYGIENE

Food hygiene has continued to receive the attention of the public health inspectorate and 1062 visits have been made for this purpose.

All plans of food premises submitted to the Borough Engineer are scrutinised for compliance with the various Acts and Regulations and where amendments are necessary the owner or architect is advised and corrections made before submission to the appropriate Committees. This system has worked very well indeed and architects and others have co-operated fully with the Department.

The following is a list of the various types of food premises in the Borough.

### Number and type of food premises

#### Premises requiring registration

For the manufacture of ice cream ... ..	3
For the storage and sale of ice cream ... ..	248
For the preparation and manufacture of sausages or pressed, potted or preserved meat, etc. ... ..	20

### FOOD HYGIENE REGULATIONS 1960

Type of premises	Number	Premises complying with Reg- ulation 16	Premises complying with Regu- lation 19
Fried fish shops	38	38	38
Wet fish shops	4	4	4
Bakehouses	7	7	7
Butchers	46	46	46
Restaurants and cafes	27	27	27
School canteens	14	14	14
Factory canteens	21	21	21
Licensed premises	106	106	106
Grocery and provisions	105	104	105
Cakes and confectionery	14	14	14
Sweets	30	30	30
Green grocery	21	21	21
Totals	433	432	433

## FOOD INSPECTION

There are no slaughterhouses in the Borough.

The following table shows the foods condemned during the year on account of decomposition, etc.

### CANNED FOODS

					lbs	
Meat	...	...	...	...	312	
Fruit	...	...	...	...	236	
Vegetables	...	...	...	...	135	
Fish	...	...	...	...	-	
Miscellaneous	...	...	...	...	6	739 lbs

### FROZEN FOODS

Meat	...	...	...	...	506	
Fish	...	...	...	...	184	
Vegetables	...	...	...	...	229	
Miscellaneous	...	...	...	...	62	981 lbs

### OTHER FOODS

Meat	...	...	...	...	487	
Fish	...	...	...	...	24	
Fruit	...	...	...	...	-	
Vegetables	...	...	...	...	3	
Cheese	...	...	...	...	324	
Miscellaneous	...	...	...	...	209	1047 lbs

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TOTAL		2767 lbs
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## POULTRY INSPECTION

There is one poultry processing establishment within the Borough at which electric stunning before slaughter is in operation.

The number of birds processed during the year was as follows:

Broilers	...	...	...	...	...	89,092
Capons etc.	...	...	...	...	...	4,516
Hens	...	...	...	...	...	173,895
Turkeys	...	...	...	...	...	1,947

Regular inspections are made of the premises to maintain a general oversight of production conditions and the methods of inspection of suspect poultry.

The percentage of birds rejected was 0.27% and the weight of these poultry was 2,886 lbs.

# ICE CREAM

Ice cream was manufactured at three premises in the Borough in 1970 while 248 premises were registered for the storage and sale of ice cream. A complete cold mix is used at two of the manufacturing premises in the Borough and pasteurisation at the other.

30 samples of ice cream were submitted for bacteriological examination and the results of the examinations are shown below.

Ice Cream	Methylene Blue Test Grading				TOTAL
	Grade 1	Grade 2	Grade 3	Grade 4	
Samples taken at manufacturing premises	6	2	4	1	13
Samples taken from retailers in the Borough	16	1	-	-	17
TOTALS	22	3	4	1	30

# SLAUGHTER OF ANIMALS ACT 1958

The number of slaughtermen's licences issued in 1970 was 8.

# KNACKER'S YARD

There is one Knacker's Yard in the Borough. These premises are not licensed for the slaughter of horses.

# MILK

## Designated Milk

Dealer's pre-packed licences    ...    ...    ...    ...    130

## Pasteurised Milk

Establishments at which milk is pasteurised...    ...    Nil

### MILK SAMPLING

During the year 177 samples of designated milks were taken for bacteriological examination and the following table provides details of the results.

No. of Samples	Description of Milk	Methylene Blue Test		Phosphatase Test		Turbidity Test	
		Passed	Failed	Passed	Failed	Passed	Failed
9	Untreated	9	-	-	-	-	-
119	Pasteurised	112	-	119	-	-	-
46	Sterilised	-	-	-	-	46	-
174	Total	121	-	119	-	46	-

### Brucella Abortus

9 samples of untreated milk was submitted to the Ring Test and proved negative.

### FOOD SAMPLES TAKEN FOR BACTERIOLOGICAL EXAMINATION

104 samples were taken during the year as follows:

97 of hot coffee, chocolate, tea or soup from vending machines  
20 of which were unsatisfactory due to the presence of faecal coli.

7 of general foodstuffs, all of which were satisfactory.

FOOD AND DRUGS ACT 1955

During the year 146 samples were submitted to the Public Analyst for analysis.

Nature of Samples	No. of Samples	Number of samples adulterated or not genuine
	Informal	
Milk	5	3
Meat and Meat Products	22	3
Fish and Fish Products	8	-
General Groceries	64	7
Preserves	8	1
Flour Confectionery	13	7
Sugar Confectionery	7	2
Ice Cream	2	-
Cordials	5	-
Vegetables	-	-
Medicines etc.	9	-
Beer and spirits	-	-
Miscellaneous	3	-
	146	23'

In addition to the above samples which were submitted to the Public Analyst 23 additional samples were brought to the office.

FOOD AND DRUGS ACT 1955

The table below shows details of the samples found not to be genuine or otherwise unsatisfactory and of the relative action taken.

Sample Number	Article	Adulteration or other irregularity	Action Taken
3747	Steak and kidney	Contained piece of wire	Vendor cautioned.
3748	Bread	Contained moth larva	Manufacturer cautioned.
3749	Bread	Contained small beetle	Manufacturer fined £5.
3750	Yoghurt	Contained hair	Manufacturer cautioned.
3764	Chocolate	Contained small quantity of lubricating grease	Manufacturer cautioned.
3765	Cordial	Contained piece of glass	Manufacturer cautioned.
3783	Bread	Contained piece of surgical plaster	Manufacturer cautioned.
3784	Margarine	Contained sugar granules	No further action taken.
3785	Bread	Contained segments of window fly	Manufacturer cautioned.
3786	Bread	Mouldy	Manufacturer cautioned.
3787	Celery hearts	Contained worm	Manufacturer cautioned.
3807	Bread	Contained carbonised matter	Manufacturer cautioned.
3808	Bottle of milk	Contained green algae	Vendor cautioned.
3809	Chocolate biscuit	Marked with blue ink from foil wrapping	Manufacturer cautioned.
3810	Damson Pie	Mouldy	Manufacturer fined £10.
3811	Bread	Contained iron scale and grease	Manufacturer cautioned.
3812	Tin of Tomatoes (Imported)	Contained lizard	Reported to Dept. of Health & Social Security.
3813	Bread	Mouldy	Manufacturer cautioned.
3814	Tin of Tomatoes (Imported)	Contained maggots	Reported to Dept. of Health & Social Security.
3815	Milk	Contained piece of glass	Manufacturer cautioned.



Sample Number	Article	Adulteration or other irregularity	Action Taken
3824	Jam	Deficient in fruit	Manufacturer cautioned.
3828	Bread	Mouldy	Manufacturer cautioned.
3829	Meat & Potato Pie	Contained fly	Manufacturer cautioned.
3830	Bread	Contained iron scale	Manufacturer cautioned.
3831	Chips	Contained beetles	Vendor cautioned.
3832	Bread	Contained piece of wire	Manufacturer cautioned.
3833	Skinless sausage	Mouldy	Vendor cautioned.
3835	Semolina	Contained insects	Vendor cautioned.
3836	Bread	Mouldy	Vendor fined £10.
3837	Bread	Mouldy	Manufacturer cautioned.
3839	Bacon joint	Contained maggots	Vendor cautioned.
3858	Pork Pie	Contained fly	Manufacturer cautioned.
3859	Milk	Dirty bottle	Manufacturer cautioned.
3860	Cereal	Contained wood wasp	Manufacturer cautioned.
3879	Nuts and Raisins	Contained maggots	Manufacturer cautioned.
3881	Loaf	Contained piece of metal	Manufacturer cautioned.
3885	Scotch Broth Powder	Incorrectly labelled	Reported to Manufacturers.
3888	Chocolate liquers	Deficient in proof spirit	Reported to Manufacturers.
3898	Black pudding	Contained piece of hessian	Reported to Manufacturers.
3899	Red cabbage	Contained maggot	Reported to Manufacturers.
3900	Milk	Contained black mould	Reported to Manufacturers.



### Atmospheric Pollution

During the year, 1,046 visits and inspections were made in connection with this section of the department's activities.

2 notifications of the installation of new furnaces were received under Section 3 of the Clean Air Act, 1956 and 2 applications for 'prior approval' were granted.

The following table shows the Smoke Control Orders which were operative in the Borough at the end of the year.

Order and Date of Operation	Acres	Premises		
		Council houses	Others	Total
No. 1 (Marshfield Bank and Wistaston Green) Smoke Control Order, 1960. 1st October, 1962.	270	859	287	1,146
No. 2 (Wistaston Green and The Valley) Smoke Control Order, 1964. 1st July, 1966.	208	557	510	1,067
No. 3 (Ruskin Park) Smoke Control Order, 1966. 1st July, 1967.	224	246	1,514	1,760
No. 4 (Nantwich Road South) Smoke Control Order, 1967. 1st July, 1969.	235	749	1,469	2,218

The department has, since 1949, in co-operation with the Department of Trade and Industry, made regular monthly recordings of the degree of air pollution throughout the borough. The results obtained are collated by the Warren Spring Laboratory and the analyses of the readings of the various stations are shown in the appended tables and graphs.

The sites selected cover four types of district in accordance with the recommendations of the Department of Trade and Industry as follows:

#### Crewe Site

- |   |                             |
|---|-----------------------------|
| (a) Residential area with a high population density | Stalbridge Road Clinic      |
| (b) Industrial area                                 | Railway Works               |
| (c) Commercial area                                 | Rear of Municipal Buildings |
| (d) Smoke Control area                              | Queens Park Nursery         |

VOLUMETRIC CONCENTRATION OF SMOKE  
IN THE ATMOSPHERE - YEAR 1970

Average daily concentration expressed as microgrammes  
per cubic metre

	A Residential Area, high population density			B Industrial Area			C Commercial Area			D Smoke Control Area		
	1968	1969	1970	1968	1969	1970	1968	1969	1970	1968	1969	1970
Jan.	233	231	192	112	*	*	175	164	128	65	85	63
Feb.	310	267	176	209	219	89	254	255	134	107	111	57
March	168	227	148	89	*	71	126	191	118	40	107	47
April	116	112	100	*	72	31	85	92	61	7	43	20
May	128	98	59	94	56	33	108	71	43	31	29	19
June	54	51	30	51	35	23	41	35	27	19	24	14
July	61	26	31	*	27	20	53	23	24	18	13	8
Aug.	61	42	75	58	45	49	51	33	62	21	19	35
Sept.	83	77	61	*	52	41	42	48	47	31	25	17
Oct.	115	119	108	66	56	49	89	91	78	33	38	33
Nov.	212	149	103	*	72	53	167	109	76	72	39	33
Dec.	*	260	228	*	143	123	*	193	166	*	87	78

\* No results obtained

VOLUMETRIC CONCENTRATION OF SULPHUR  
DIOXIDE IN THE ATMOSPHERE - YEAR 1970

Average daily concentration expressed as microgrammes per cubic metre

	A Residential Area, high population density			B Industrial Area			C Commercial Area			D Smoke Control Area		
	1968	1969	1970	1968	1969	1970	1968	1969	1970	1968	1969	1970
Jan.	113	81	149	119	*	*	115	39	77	69	*	57
Feb.	153	113	133	118	141	133	144	95	106	89	86	64
March	94	109	140	90	■	163	99	*	94	49	53	60
April	57	70	104	*	105	120	66	55	90	18	*	56
May	56	73	98	89	92	93	54	53	84	35	47	66
June	42	62	61	65	87	85	38	33	55	26	43	52
July	47	30	58	*	47	83	47	16	57	27	26	42
Aug.	40	50	102	60	66	116	44	46	94	35	42	74
Sept.	52	65	76	*	109	81	42	50	68	28	39	44
Oct.	53	93	107	75	93	105	41	63	89	28	50	52
Nov.	83	108	114	*	83	84	52	75	57	44	49	36
Dec.	*	164	214	*	112	96	*	112	113	*	101	79

\* No results obtained

# ATMOSPHERIC POLLUTION - DEPOSITED MATTER 1970

Average daily (undissolved) deposit in mg/sq.  
metre

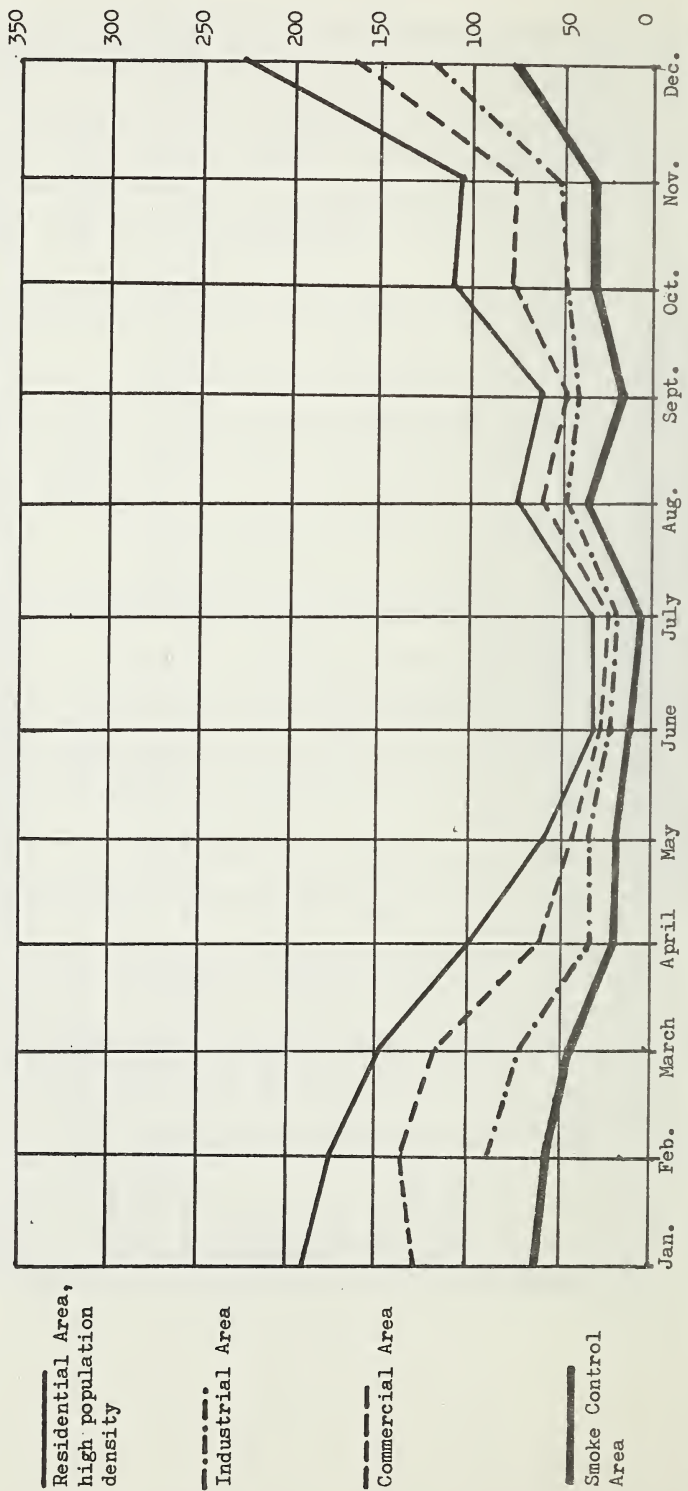
	ASHBANK CO-OP STORES			IMPERIAL CHAMBERS			QUEENS PARK NURSERY			CREWE GATES FARM		
	1968	1969	1970	1968	1969	1970	1968	1969	1970	1968	1969	1970
January	56	50	59	56	46	55	16	52	31	*	33	28
February	64	147	64	64	146	64	28	148	30	*	*	39
March	83	56	107	83	49	83	32	33	38	*	24	59
April	48	90	37	47	108	50	44	34	32	52	56	42
May	87	66	94	99	91	103	36	35	49	55	60	55
June	127	41	81	123	46	112	110	30	50	121	61	160
July	56	49	44	63	55	43	26	22	20	94	67	33
August	45	56	58	52	70	63	81	52	153	44	53	20
September	43	52	57	93	66	86	53	60	49	45	114	61
October	52	60	54	67	56	66	32	20	*	43	34	56
November	46	49	53	53	66	52	64	26	55	32	39	49
December	44	53	63	111	65	44	48	52	30	71	88	38
TOTAL	751	769	771	911	864	821	570	564	537	557	629	640
AVERAGE MONTHLY	63	64	64	76	72	68	47	47	49	62	57	53

\* No result obtained owing to damage to equipment

VOLUMETRIC CONCENTRATION OF SMOKE  
IN THE ATMOSPHERE - YEAR 1970

GRAPH I

Average daily concentration expressed as microgrammes  
per cubic metre

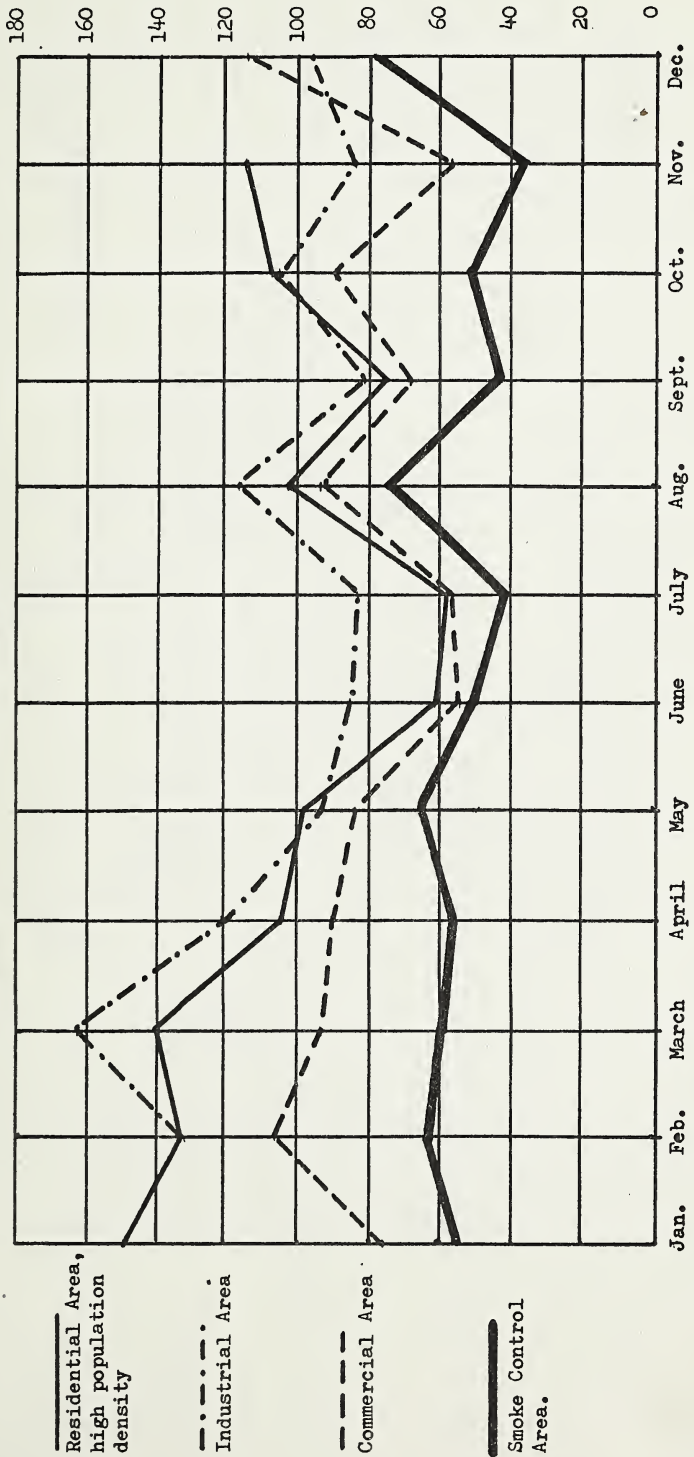




GRAPH II

VOLUMETRIC CONCENTRATION OF SULPHUR  
DIOXIDE IN THE ATMOSPHERE - YEAR 1970

Average daily concentration expressed as microgrammes  
per cubic metre



GRAPH III

ATMOSPHERIC POLLUTION - DEPOSITED MATTER 1970

Average daily (undissolved) deposit in mg/sq.  
metre

